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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,336	07/18/2003	Joseph M. Piana	2507	
75	90 09/20/2004		EXAMINER	
Vincent L. Ramik			DUDA, RINA I	
DILLER, RAMIK & WIGHT Suite 101			ART UNIT	PAPER NUMBER
7345 McWhorter Place			2837	
Annandale, VA 22003			DATE MAILED: 09/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	/
	10/621,336	PIANA ET AL.	is .
Office Action Summary	Examiner	Art Unit	
	Rina I Duda	2837	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence ad	ldress
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this c D (35 U.S.C. § 133).	ly. ommunication,
Status			•
1) Responsive to communication(s) filed on			
	action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under E			e ments is
Disposition of Claims			
4) ☐ Claim(s) 1-24 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 18 July 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 C	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National	Stage
	,		·
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO_413)	
 Notice of References Cited (PTO-932) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>11/28/03</u>. 	Paper No(s)/Mail Da	ate	O-152)

Application/Control Number: 10/621,336 Page 2

Art Unit: 2837

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Adams et al (US Patent 3913153).

Adams et al teach a control system for a hospital bed comprising a microprocessor 17 and control logic 18 for driving a plurality of motors 11-13 that adjust the position of the bed, and a power source connected to leads 31/32, which is transformed to appropriate voltage levels to power the different electronic elements.

Claim 2, Adams et al describe in column 5 lines 18-29 that the voltage applied to leads 31/32 lies within 115 to 120 volts AC and 90 to 130 volts.

Claim 4, Adams et al teaches that they electronic controller would move the bed based on information from the position indicating means, therefore is inherent the logic/master circuits includes some form of memory device in order to store positions occupied by the various parts of the bed.

3. Claims 10 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Fromson (US Patent 5600214).

Art Unit: 2837

Fromson teaches an adjustable bed comprising microcomputer/control logic 80 for driving a plurality of motors 24/25/28/29 and a receiver 43 for receiving command signals from a remote control 32.

Claim 14, Fromson describes memory 82 for receiving and storing operational information.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Adams et al (US Patent 3913153).

Adams et al discloses the claimed invention except for a means for connecting two bed controllers. It would have been obvious to one person of ordinary skill in the art at the time of the invention was made to connect two different controllers for operating the bed, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. Regis Paper Co v. Bemis Co, 193 USPQ 8.

6. Claims 5, 6, 9, 20, 21, 23, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adams et al (US Patent 3913153) and Smith et al (US Patent 6544200).

Art Unit: 2837

Claims 5, 6, 9, the difference between Adams et al and the claimed language of claim 5 is that claim 5 recites connecting the bed controller to a detection system that is mounted on the frame of said bed.

Smith et al teaches a controller for a hospital bed comprising a series of sensing means 400 mounted on the bed for detecting the presence of patients by detecting an ambient temperature change inside the bed.

Claims 20, 21, 23, and 24, Adams et al describe an adjustable bed and motors for adjusting the position of the bed. Smith et al describe various detection systems for detecting the presence of humans inside the bed by detecting an ambient temperature change inside the bed. Smith et al shows in figure 1 and 4 the detection systems being enclosed

Therefore, it would have been obvious to one person of ordinary skill in the art to connect a plurality of sensors to a bed, since said sensors would provide a caregiver with a monitoring system that detects changes in the state of a patient.

7. Claims 11-13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fromson (US Patent 5600214).

Fromson discloses the claimed invention except for the frequency range. It would have been obvious to one person of ordinary skill in the art at the time of the invention was made to choose the frequency between 418Mhz-433Mhz, since it has been held that where the general condition of a claim are disclosed in the prior art,

Art Unit: 2837

discovering the optimum or workable range involves only routine skill in the art. *In re Aller, 105 USPQ 233.*

Fromson discloses the claimed invention except for a means for connecting two bed controllers. It would have been obvious to one person of ordinary skill in the art at the time of the invention was made to connect two different controllers for operating the bed, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *Regis Paper Co v. Bemis Co, 193 USPQ 8.*

8. Claims 7,8,22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adams et al (US Patent 3913153) and Smith et al (US Patent 6544200) as applied to claims 5, 6, and 9 above, and further in view of Lee (US Patent 5742055).

The difference between claims and the teachings of Adams et al and Smith et al is that claim 7 requires that the detection system being a pyroelectric sensor.

Lee teaches a device for sensing the position of a human body using infrared sensor 12.

It would have obvious to choose to use a pyroelectric sensor for sensing the presence of humans inside the bed frame, since pyroelectric sensors sense changes in temperature that could be produce the movement of a human on the bed.

Claim 8, Smith et al and Lee describe enclosures for their detection systems.

9. Claims 15, 16, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fromson (US Patent 5600214) and Smith et al (US Patent 6544200).

Art Unit: 2837

Claims 15, 16, and 19, the difference between Fromson and the claimed language of claim 5 is that claim 5 recites connecting the bed controller to a detection system that is mounted on the frame of said bed.

Smith et al teaches a controller for a hospital bed comprising a series of sensing means 400 mounted on the bed for detecting the presence of patients by detecting an ambient temperature change inside the bed.

Therefore, it would have been obvious to one person of ordinary skill in the art to connect a plurality of sensors to a bed, since said sensors would provide a caregiver with a monitoring system that detects changes in the state of a patient.

10. Claims 17 and 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Fromson (US Patent 5600214) and Smith et al (US Patent 6544200 as applied to claims 15, 16, and 19 above, and further in view of Lee (US Patent 5742055).

The difference between claim 17 and the teachings of Fromson and Smith et al is that claim 17 requires that the detection system being a pyroelectric sensor.

Lee teaches a device for sensing the position of a human body using infrared sensor 12.

It would have obvious to choose to use a pyroelectric sensor for sensing the presence of humans inside the bed frame, since pyroelectric sensors sense changes in temperature that could be produce the movement of a human on the bed.

Claim/8, Smith et al and Lee describe enclosures for their detection systems.

Application/Control Number: 10/621,336 Page 7

Art Unit: 2837

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The documents cited in form PTO-892 describe other controllers for controlling an adjustable bed.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rina I Duda whose telephone number is 571-272-2062.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached at 571-272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RD

PRIMARY EXAMINER